

WHAT IS CLAIMED IS:

1. A motor comprising:

a rotor;

a stator located external to the rotor and including main and auxiliary windings;

an outer motor case; and

a plurality of isolators positioned between the stator and outer motor case and configured to enhance forces applied to a foundation due to excitation of the auxiliary windings.
2. The motor of claim 1 wherein the isolators are of an elastomeric material.
3. The motor of claim 1 wherein the auxiliary windings generate forces, and wherein the outer motor case attaches to a foundation and reacts the forces generated by the auxiliary windings.
4. The motor of claim 1 wherein the isolators are symmetrically positioned about an axis of the motor.
5. The motor of claim 1 wherein the isolators are positioned to be in shear for radial and axial deflections and in compression for rotation about an axis of the motor.

6. An electromechanical machine comprising:

a rotor;

a stator located external to the rotor and including main and auxiliary windings;

linear bearings configured to constrain a motion of the stator to an axial direction; and

a plurality of isolators connected to the stator and configured to enhance axial forces applied to a foundation due to excitation of the auxiliary windings.

7. The electromechanical machine of claim 6 wherein the isolators are formed of an elastomeric material.

8. A method for attenuating a force exerted by a stator in an electromechanical machine, comprising:

constraining a motion of the stator to an axial direction using linear bearings;

and

attenuating a force exerted by the stator in the axial direction using one or more isolators.

9. The method of claim 8 wherein the isolators are formed of an elastomeric material.

